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1. N152-098: Modular Smart Micro/Nano-Grid Power Management System

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Microgrids are being considered at DoD installations to better manage energy usage, with the objective of providing better efficiency, reliability, and higher integration of renewable generation such as wind and solar. While the benefits of microgrids are broadly touted, implementation has been slow and complex. A turnkey modular micro/nano-grid controller design is sought, that would expedite tes ...

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2. N152-099: Cooled BusWork for Shipboard Distribution and Energy Storage

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Improvements in the manufacturing of power density, power quality, and efficiency in power and energy management and control are needed by the Navy to meet power and energy demands and allow for future mission growth. The Navy is seeking to foster the development of common, affordable electrical components and systems that could have broad application to ships. Electrochemical storage (battery) ce ...

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3. N152-100: Navy Air Cushion Vehicles (ACVs) Lift Fan Impeller Optimization

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Ship-to-Shore Connector (SSC), a replacement hovercraft for the existing fleet of Landing Craft, Air Cushion (LCAC) vehicles, utilizes a lift fan system to discharge air into the craft’s skirt and bow thrusters to lift the hovercraft under normal operation. Each SSC utilizes two identical lift fans which are defined by an impeller and a volute assembly. Each lift fan impeller includes a cent ...

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4. N152-101: Amphibious Combat Vehicle Ramp Interface Modular Buoyant Kit (MBK) for Joint High Speed Vessel (JHSV) Stern Ramp

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The United States Marine Corps has advised the Navy that it needs to develop a light weight kit that can be readily attached to the JHSV’s stern cargo ramp so that when the ramp is lowered directly into the water it would allow AAVs and ACVs to be launched and retrieved from the JHSV near the shore (splash-off). The Marine Corps needs a high speed shallow draft connector that can launch a dozen ...

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5. N152-102: Modular Boat Ramp to Launch and Retrieve Watercraft from Joint High Speed

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The JHSV's boat crane does not have the requisite man loading safety factor needed to allow the boat crew to remain on board during L&R. In order for small boats to debark from the JHSV, they must enter the water using the boat crane without the crew on board, and then the small boat must be positioned alongside the JHSV in a coordinated effort by the crane operator and members of the ship's c ...

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6. N152-103: Innovative Flexible Equipment Support Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

US Navy Destroyers need an equipment support infrastructure for several shipboard electronics and command spaces for a Common Processing System (CPS). The purpose of the flexible infrastructure (FI) is to provide equipment configuration flexibility and the ability to complete Command Center System modernization and upgrades at reduced cost (by 30 to 60 percent) (Ref 1) compared to fixed-system mo ...

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7. N152-104: Manufacturing Near-Net-Shape Conformal Electro-optic Sensor Window Blanks from Spinel

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Electro-optic sensor windows that conform to the local shape of an aircraft mold-line are desirable for future air platforms to allow for a large sensor angle of regard. Conformal shapes may have little to no symmetry depending upon their location. Spinel is an excellent material candidate as it is both durable and multi-spectral (ultraviolet through mid-wave infrared). Spinel is more erosion resi ...

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8. N152-105: Metrology of Visibly Opaque, Infrared-Transparent Aerodynamic Domes, Conformal Windows, and Optical Corrector Elements

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The function of electro-optical sensors is greatly impacted by the window's properties. Survivability depends on material strength, hardness, and thermal properties. Targeting is limited by optical properties of the window material. Drag is reduced by aerodynamic shapes. The objective of this project is to create metrology methods and hardware to measure the optical figure and transmitted wavefr ...

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9. N152-106: Metrology of Visibly Transparent Large Aspheric Optics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Aspheric optics represent the next generation in electro-optic sensor windows allowing for windows that conform to the local shape of an aircraft moldline, domes that reduce drag in missiles, and optical elements that correct for distortions produced by conformal windows and aerodynamic domes. The objective of this project is to develop metrology methods and hardware to measure the optical figure ...

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10. N152-107: Manufacturing of Visibly Transparent Large Conformal Windows

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Conformal electro-optic sensor windows are desirable for future air platforms as they maintain the shape of the aircraft moldline and allow for a large sensor angle of regard. Such windows may have little to no symmetry depending upon their location. Spinel is an excellent candidate window material as it is both durable and multi-spectral (ultraviolet through mid-wave infrared). Spinel is more ero ...

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